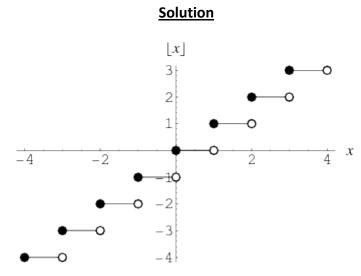
Answer on Question #78900 – Math – Calculus

Question

The greatest integer function is continuous on R. Statement is true or false? Give reasons for your answers.



The greatest integer function, also called the floor function [x], is not continuous on R, since it is discontinuous at integer points. For example, [x] = 0 for $x \in [0,1)$ and [x] = 1 for [1,2), thus

$$\lim_{x \to 1^-} [x] \neq \lim_{x \to 1^+} [x]$$

Answer: false.

Answer provided by https://www.AssignmentExpert.com